Transylvania County Comprehensive Transportation Plan (CTP) Meeting #3

NCDOT Transportation Planning Division (TPD) **Daniel Sellers**, PE
Transylvania County Transportation Coordinator, **April Alm**Land of Sky Rural Planning Organization (LOSRPO) **Vicki Eastland**,









Agenda

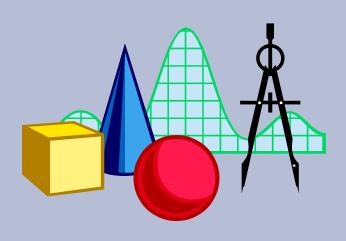
- 3:00 PM Welcome and Introductions
- 3:05 PM Brief Group Discussion. Questions from previous meeting
- 3:10 PM Present Safety & Modernization Deficiencies
- 3:20 PM NCDOT Div 14 Recap Projects underway
- 3:25 PM Discuss any additional highway project needs
- 3:40 PM Transit Discussion April Alm, Transylvania County Transit Director will Present current transit conditions
- 3:55 PM Group Update "Generators of Pedestrian Activity"
- 4:00 PM Fixed Deviated Routes / Regional Routes
- 4:15 PM What Transit may look like in the CTP document
- 4:20 PM Future meeting Discussion, does WG want month 5-6 Public Involvement Option, Daniels "Big" two month data exercise.
- 4:25 PM Wrap-Up

Desired Outcomes

- 1. Work Group has a working understanding of **Safety** and **Modernizations** maps and **Bridge Deficiency** maps
- Work Group provides direction on deficiencies and advises project team on additional highway needs
- 3. Work Group has a better understanding of Transylvania Co existing Public Transit Services
- 4. Work Group provides input on potential fixed route and pedestrian activity generators
- 5. Future meeting tentatively August 13, 3 4:30 at the Transylvania County Board of Elections building

Safety & Modernization Deficiencies

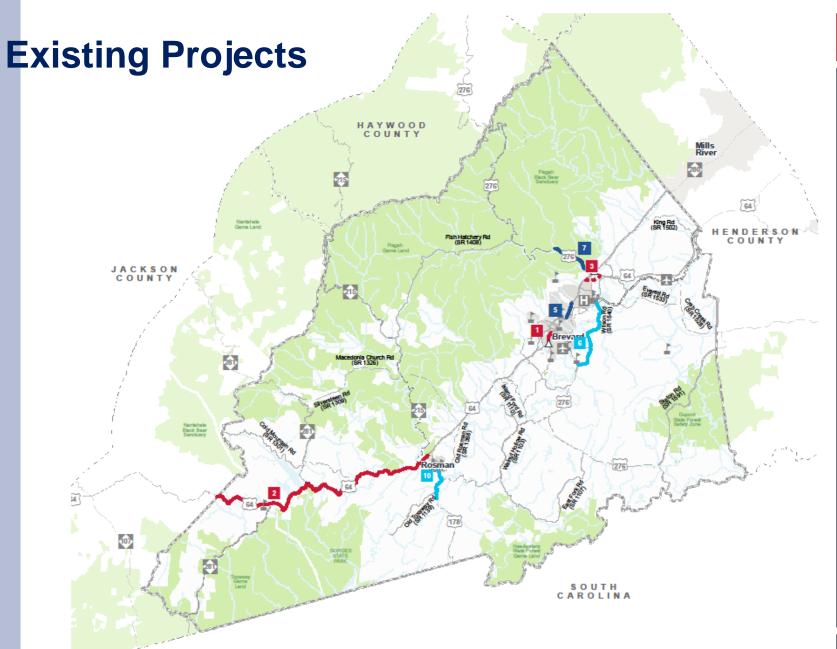




Daniel Sellers
NCDOT Transportation Planning Division
June 11, 2019

Map ID	TIP No.	<u>Location Description</u>	<u>Status</u>	Туре	
1	U-5104	Caldwell Street from Probart Street to US 64	Complete	Roadway with Multi-Modal Components	
2	R-2409C	US 64, Lake Toxaway to Indian Creek	Complete	Improve alignment, lane widths, shoulders, and climbing lanes	
3	R-5605	Davidson River Village Connector from US-64 to US-276/US-64 in Pisgah Forest	Under Construction	New Location Roadway with Multi-Modal Components	
4*	R-5799	Pisgah Forest Intersection	Under Design	Intersection/Bike and Pedestrian	
5	R-5800	Asheville Highway, US 276	Under Design	Access Management	
6	R-5763	Wilson Road	Under Design	Improve alignment, lane widths, and shoulders	
7	R-5865	US 276 in Pisgah Forest	Under Design	3 lane cross section with bike facilities	
8	EB-5858	Davidson River Pedestrial Bridge	Under Design	Bike and Pedestrian Bridge across Davidson River near Pisgah Forest	
9*	R-5882	Rosman Highway, North Country Club, Caldwell Street	In Draft STIP	Intersection Improvements	
10	R-5919	US 178, Rosman	In Draft STIP	Improve alignment, lane widths, and shoulders	
11		US 64 from US 178 to existing 4-lane	Proposed	4-lane Divided	
12		US 64 from South Broad Street to existing 4-lane.	Proposed	Replace center lane with median.	
13		NC 280 from US 276 to Henderson County	Proposed	Replace center lane with median.	
14*		Intersection of US 276 and Parkview Drive	Proposed	Improve Intersection	
15*		Intersection of Cascade Lake Road and Crab Creek Road	Proposed	Improve Intersection	
16*		NC 215 and US 64	Proposed	Improve Intersection	
17		West Brevard, partially new location partially existing	Proposed	Improve connectivity for schools and neighborhoods on west side of Brevard.	

* Intesection projects marked on maps with a triangle not with an ID.

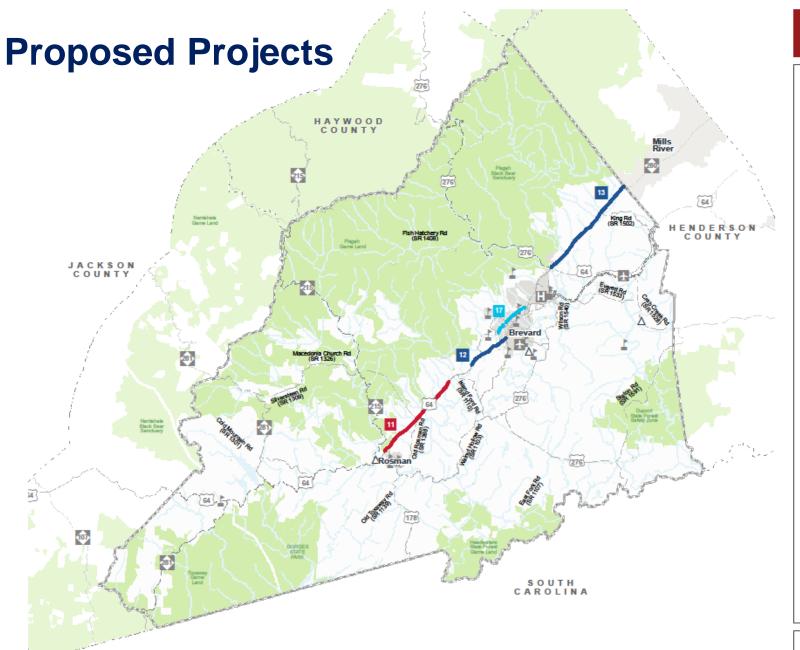




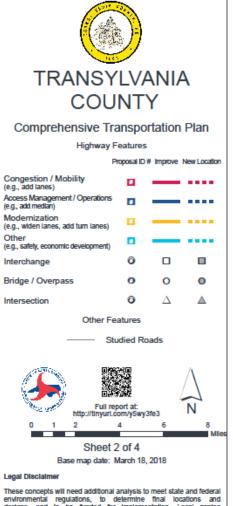


DRAFT WORKING MAP Plan Date: June 03, 2019

Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

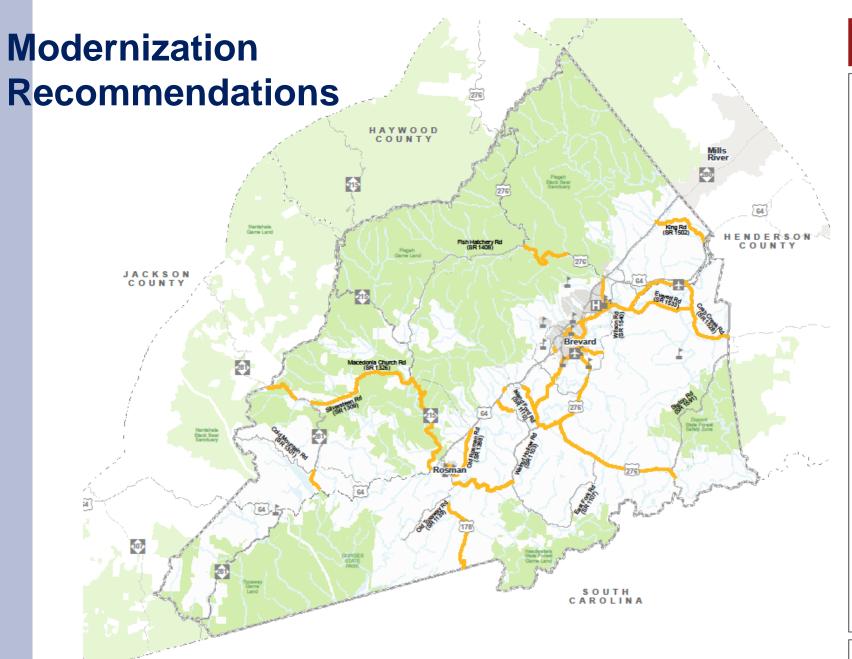




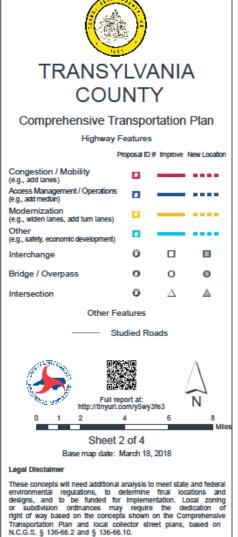


designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

> DRAFT WORKING MAP Plan Date: June 03, 2019







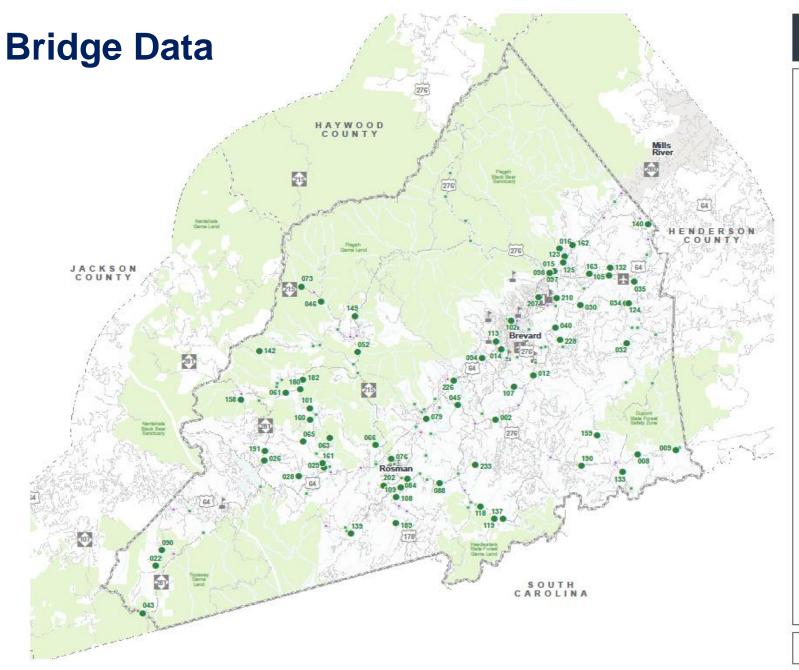
DRAFT WORKING MAP Plan Date: June 03, 2019

Modernization Table

FUNCTIONAL CLASSIFICATION	US & NC Routes (Minor Arterial or Collector)	Other Collectors	Routes that are not functionally Classified
Less than 2,000 vpd	10 feet	10 feet	9 feet
2,000 to 5,000 vpd	12 feet	11 feet	10 feet
Over 5,000 vpd	12 feet	12 feet	

Bridges

- Structurally Deficient in relatively poor condition or has insufficient load-carrying capacity. The insufficient load capacity could be due to the original design or to deterioration.
- Functionally Obsolete it is narrow, has inadequate underclearances, has insufficient load-carrying capacity, is poorly aligned with the roadway, and can no longer adequately service today's traffic
- A bridge must be classified as deficient before it is eligible for federal bridge replacement or rehabilitation funds.



BRIDGE DEFICIENCIES



TRANSYLVANIA COUNTY

CTP Analysis and Information

Bridge Features



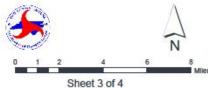
Deficient Bridge



Other Structure

Other Features

Study Road

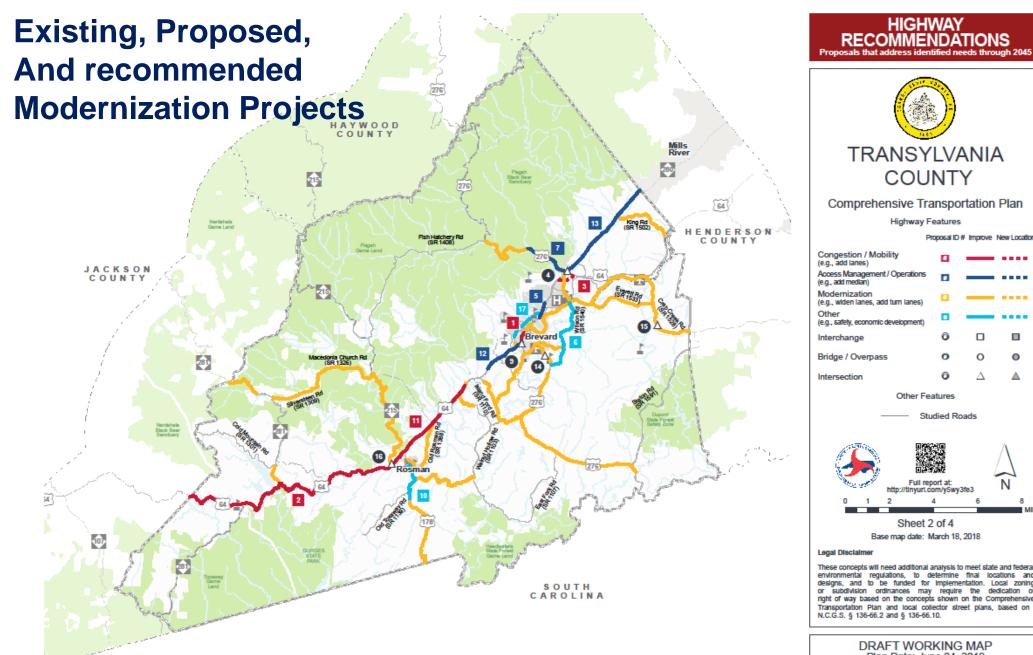


Base map date: March 18, 2018

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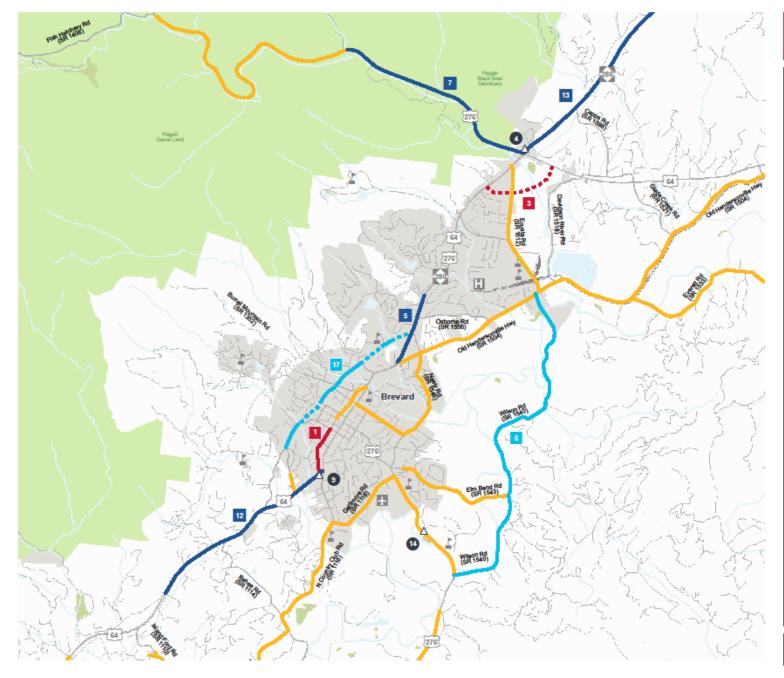
> DRAFT WORKING MAP Plan Date: May 11, 2019



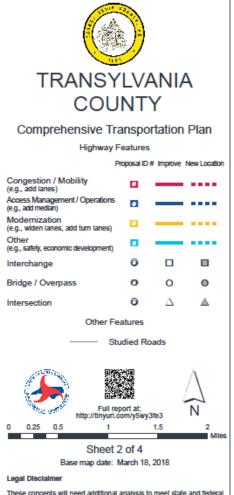




DRAFT WORKING MAP Plan Date: June 04, 2019



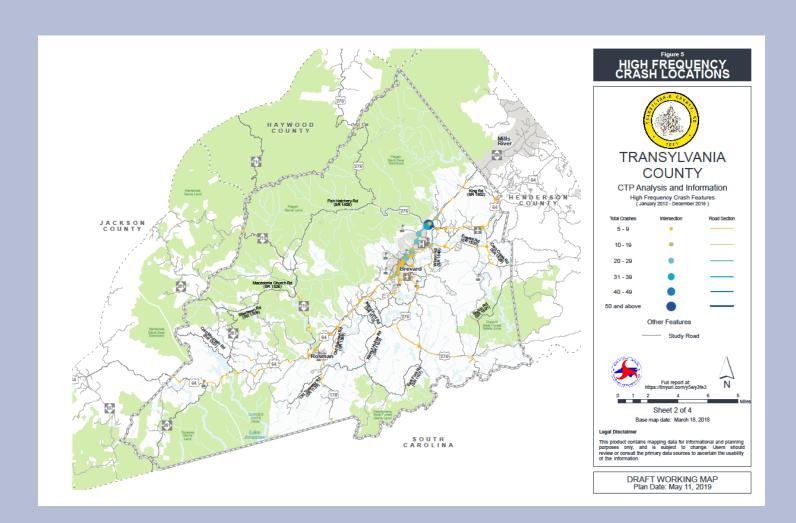




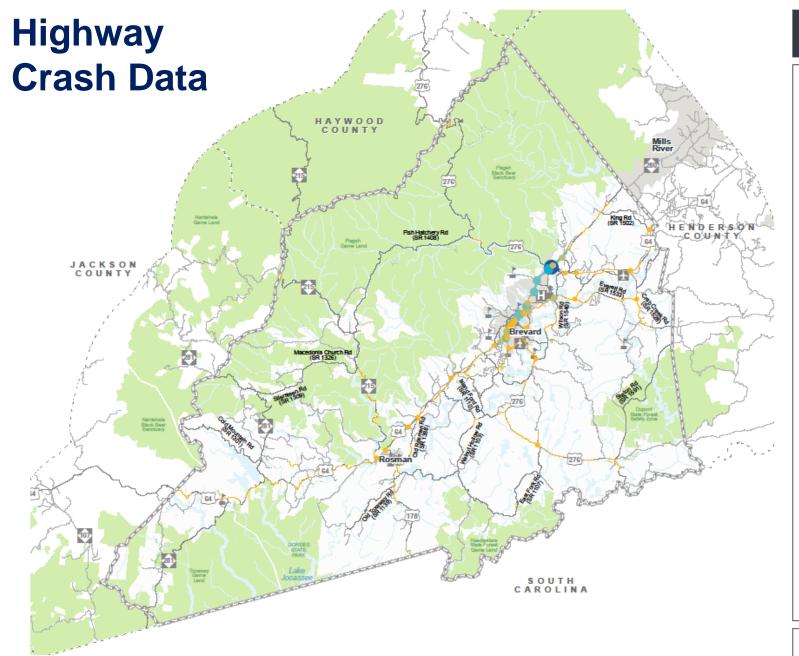
These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zonling or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

DRAFT WORKING MAP Plan Date: June 04, 2019

Safety Maps Review with Fatal and sever injury Crash Locations



Daniel Sellers, NCDOT Transportation Planning Division June 11, 2019

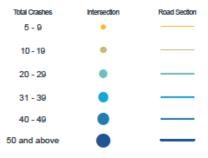


HIGH FREQUENCY CRASH LOCATIONS



CTP Analysis and Information

High Frequency Crash Features (January 2012 - December 2016)



Other Features

Study Road

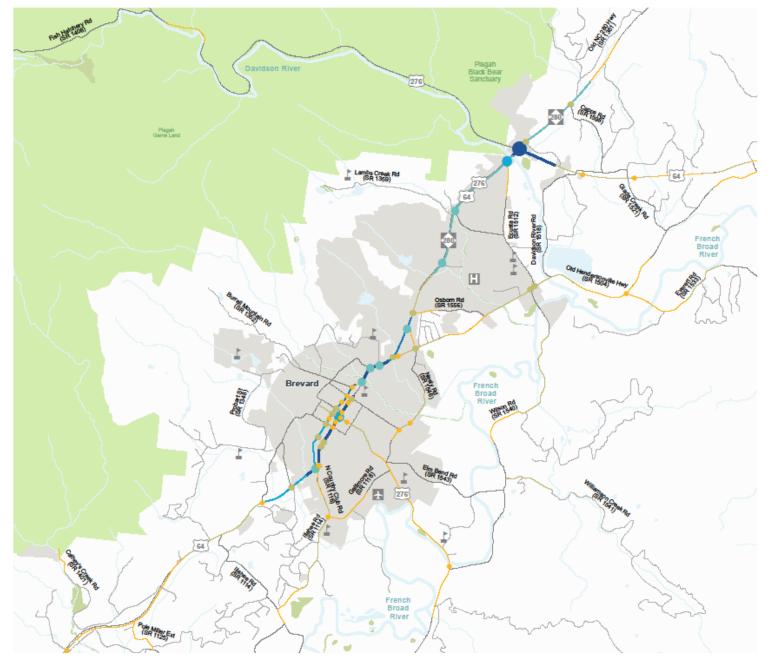


Base map date: March 18, 2018

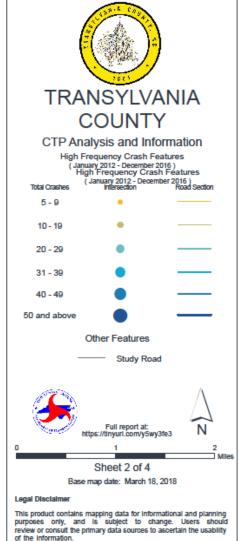
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DRAFT WORKING MAP Plan Date: May 11, 2019



HIGH FREQUENCY CRASH LOCATIONS



DRAFT WORKING MAP Plan Date: May 12, 2019

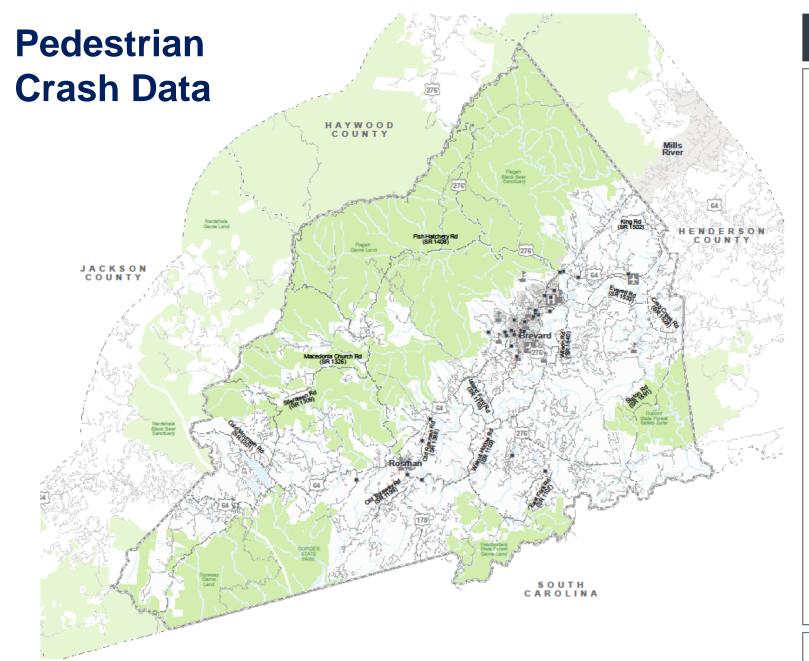


Figure 3 Pedestrian Analysis



TRANSYLVANIA COUNTY

CTP Analysis and Information

Pedestrian Features

Sidewalk

Multi-Use Path

Common Roadway

Bicycle and Pedestrian Bridge

Other Features

Pedestrian Crash Location

1

Destination

Study Road



Base map date: March 18, 2018

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DRAFT WORKING MAP Plan Date: May 12, 2019

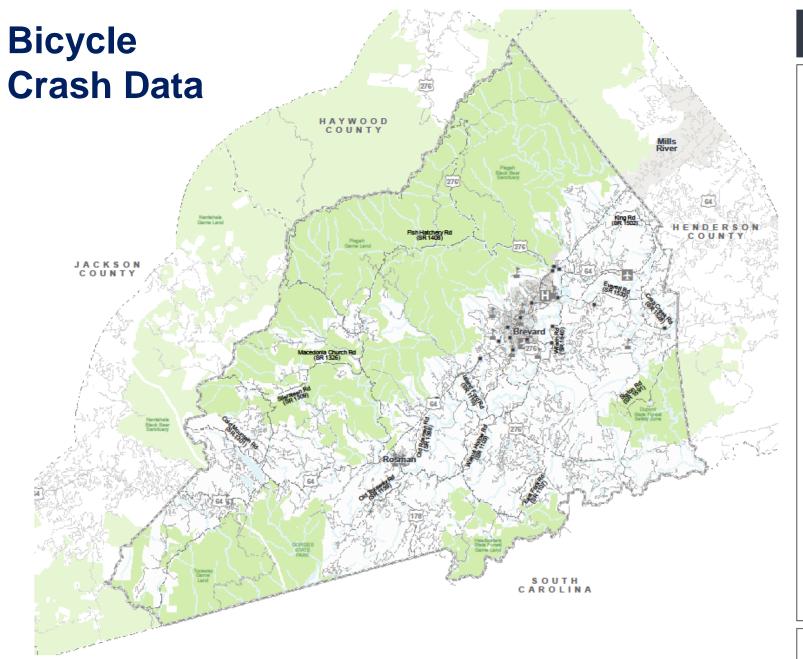


Figure 3 Bicycle Analysis



CTP Analysis and Information

Bicycle Features

Bicycle Lane

Bicycle Route

Multi-Use Path

Common Roadway

Bicycle and Pedestrian Bridge

Other Features

Bicycle Crash Location

>

Destination

Study Road

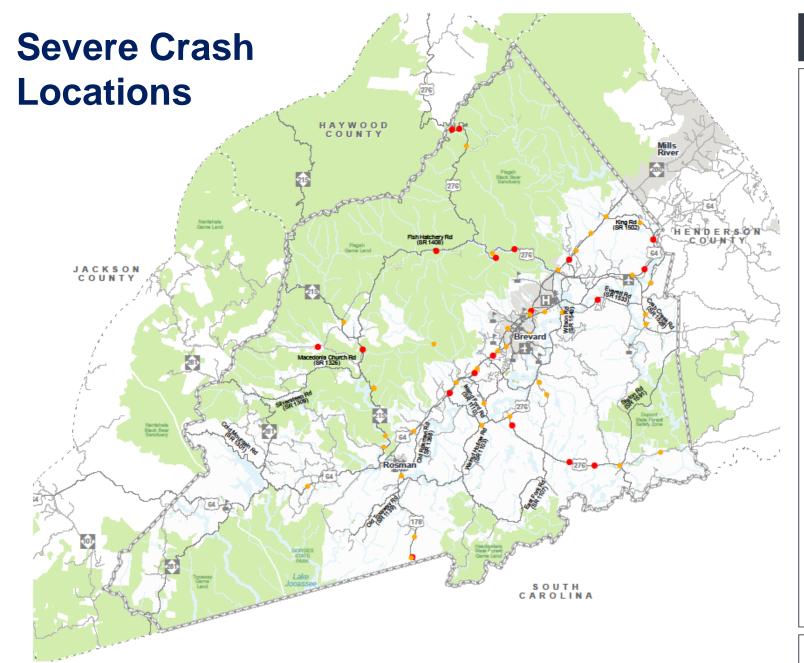


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DRAFT WORKING MAP Plan Date: May 12, 2019



SEVERE CRASH LOCATIONS



CTP Analysis and Information

Severe and Fatal Crash Features (January 2013 - December 2017)

- A (Severe Crash)
- K (Fatal Crash)

Other Features

Study Road

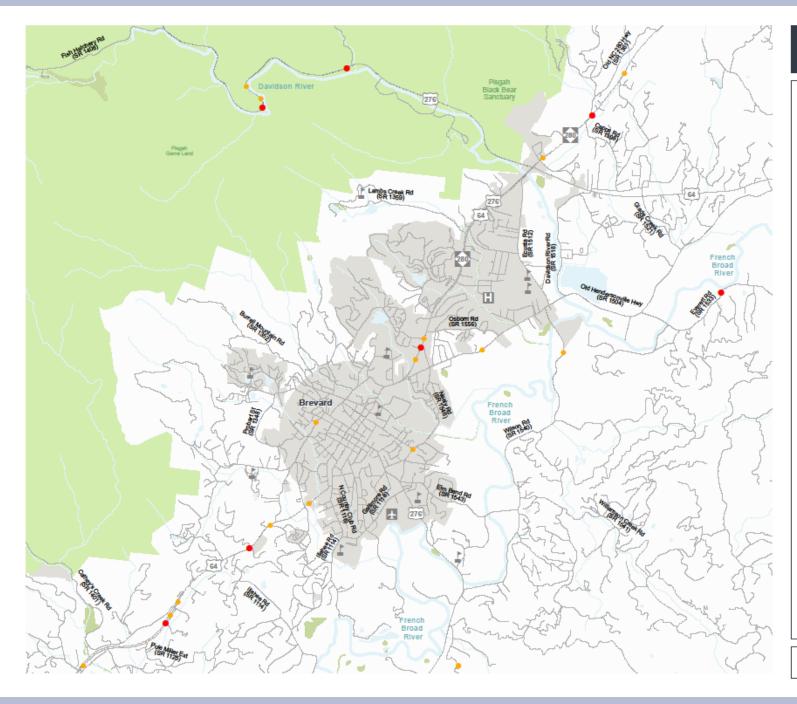


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DRAFT WORKING MAP Plan Date: June 05, 2019



HIGH FREQUENCY CRASH LOCATIONS



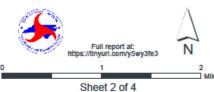
CTP Analysis and Information

Severe and Fatal Crash Features (January 2013 - December 2017)

- A (Severe Crash)
- K (Fatal Crash)

Other Features

Study Road



Base map date: March 18, 2018

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DRAFT WORKING MAP Plan Date: June 05, 2019

Transylvania County Public Transit



April Alm, Transylvania County Transportation Coordinator June 11, 2019

 Transylvania County Transportation provides demand response – door-to-door transportation services for the residents of Transylvania County.

A demand response system is one where passenger trips are generated by calls from passengers for advanced scheduling and then the transportation system dispatches a vehicle to pick the passengers up and transport them to their destinations.

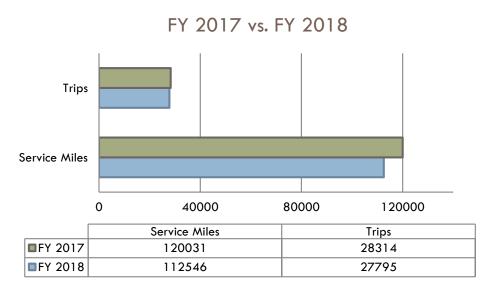
- Examples of transport:
 - General Public (Employment, Shopping, Medical Appts, Paying Bills, etc.)
 - Senior Adults to Silvermont and Quebec Community Center Nutrition Sites
 - Vocational Rehabilitation
 - Head Start
 - Dialysis
 - Sharing House Getting Ahead Programs
 - Schenck Job Corp Student Transport
- Transylvania County Transportation has a fleet of seven (7) vehicles, four of which are lift-equipped paratransit vans.

- Transylvania County provides funding for a percentage of transportation services and the remaining costs are funded by Federal and State grants
- □ For General Public Transportation, clients pay \$1.00 per stop and may have as many as three (3) stops per trip
- □ Funding Programs for Clients
 - Home and Community care Block Grant Individuals 60+ traveling to nutrition sites, shopping centers or medical appointments (LOSSC and LOSMD) They do not pay a fare.
 - Rural Operating Assistance Program (ROAP) Three separate funding sources; Part of ROAP is EDTAP which provides funds for transportation services for the Elderly and Disabled (60+) They do not pay a fare.

Funding Programs for Clients (cont'd)

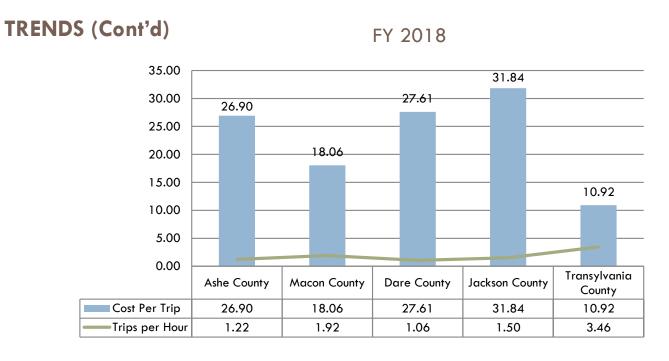
- Brevard City Cab, LLC is currently Transylvania County's Transportation's contracted private service operator which provides a round trip fare of \$5.00 and includes up to three stops per trip.
- □ New Elderly and Disabled Voucher Program (EDVP) is a voucher program that allows disabled and elderly (65+) residents to purchase transportation services at a significant discount. Once enrolled as an EDVP client, vouchers may be purchased that can be used with a local cab provider for \$5.00 to travel from an unincorporated area of Transylvania County to up to three destinations within the incorporated areas of the City of Brevard or Town of Rosman and then to return home. The other voucher amount is \$20.00 that entitles an individual to a trip to a single destination in Buncombe or Henderson Counties.

TRENDS (Cont'd)



Transportation Metrics Include Number Of Demand Response Service Miles, Number Of Service Hours And Number Of Trips.

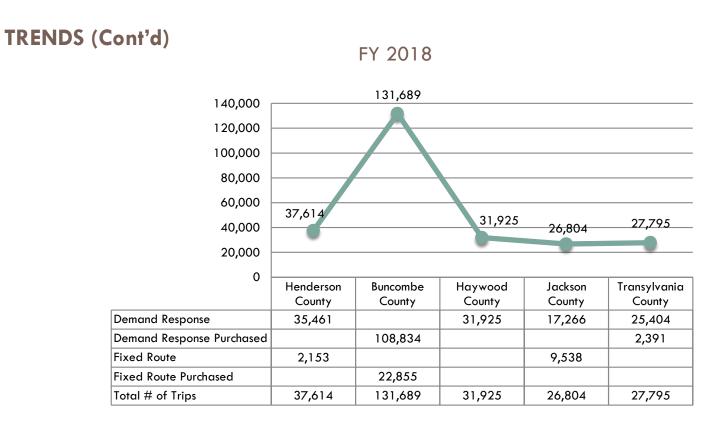
While the total number of trips for FY 2018 did not change significantly when compared to FY 2017, 7 out of 12 months in FY 2018 reflected an increase when compared to months from the prior year.



In comparison to Ashe, Macon, Dare and Jackson – Transylvania County Transportation benchmarks as having the lowest Demand Response cost per trip as well as exceeding in the number of trips per hour.

Transylvania
County
Transportation
reduced the cost
per trip from
\$14.52 in FY 2017
to \$10. 92 in FY
2018.

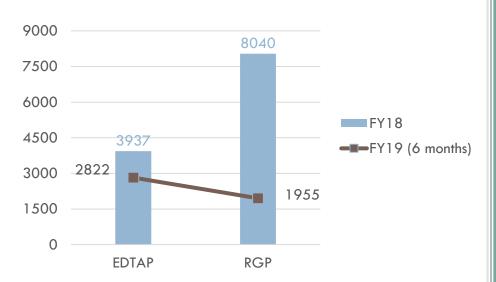
Trips per Hour increased from 2.97 in FY 2017 to 3.46 in FY 2018.



Regionally – Transylvania County Transportation's Number Of Demand Response Trips For FY 2018 Is Comparable To Counties With Higher Populations.

TRENDS (Cont'd)





In the first six months of FY 2019 – EDTAP trips proceeded RGP trips as opposed to FY 2018 indicating more elderly and disabled are riding as opposed to the rural general public.

EDTAP: Elderly and
Disabled
Transportation
Assistance Program
(part of ROAP –
Rural Operating
Assistance
Program)
(No fare for 60+
or disabled)

RGP: Rural General Public (\$1.00 per Stop)

French Broad River MPO & Land of Sky RPO — Coordinated Public Transit-Human Services Transportation Plan (adopted February 2018)

The following recommendations were compiled from stakeholder and public input sessions that were held at each of the five counties in the region (Buncombe, Haywood, Henderson, Madison, and Transylvania).

For Transylvania County:

- □ 1. Expand and/or maintain service across multiple jurisdictions (Asheville to Black Mountain, Hendersonville to Fletcher, etc.)
- 2. Target transportation to and from jobs, interviews, applications for jobs and job skill
- □ 3. Extend hours of service to cover nights, weekends, and holidays
- 4. Improve coordination and collaboration between transit agencies for greater efficiencies with cross-county trips
- □ 5. Develop new fixed route and deviated fixed route service

FY 2020 GOALS:

 Continue preparation of deviated fixed route (stop locations with times, budget analysis and timeline then present to TAB and Board of Commissioners)

A deviated-fixed route service operates a bus or van along a fixed route and keeps to a timetable, but the bus or van can deviate from the route to go to a specific location, such as a house, child care center or employment site. Once the pick-up or drop-off is made, the vehicle goes back to the place along the route that it left.

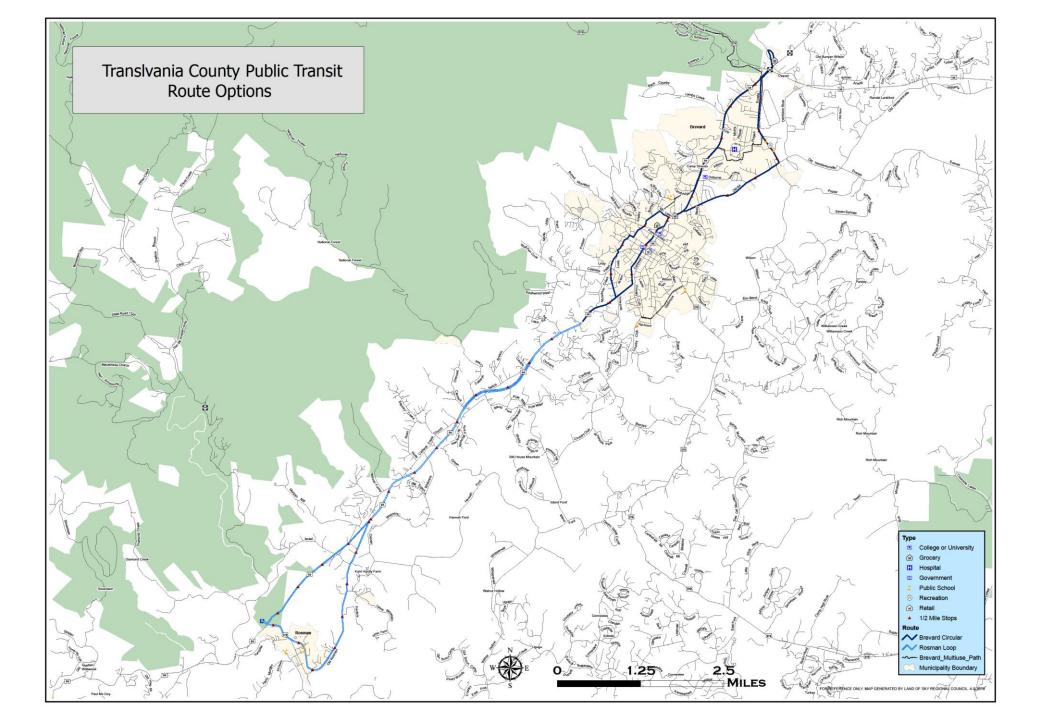
Potential Stops for Deviated Fixed Route

- □ 1. Rosman Park-and-Ride
- 2. Rosman Jarrett's and / orLaundromat or Post Office
- 3. Rosman Exxon / DollarGeneral
- 4. Rosman Harmony Corner
- 5. Brevard SavMor
- 6. Brevard County
 Government Square (access to DSS, Tax, BOE, Admin)
 Probably DSS
- 7. Brevard Sharing House
- 8. Brevard TransylvaniaCounty Housing Authority
- 9. Brevard Pine Crest Apt (2)

- 10. Brevard English Hills Apt
- Brevard Downtown –
 Courthouse
- 12. Brevard Post Office
- 13. Brevard College Plaza
- 14. Brevard Food Lion
- □ 15. Brevard Ingles
 - 16. Brevard The Cottages
- 17. Brevard Wells Fargo
- 18. Brevard Walgreen's
- 19. Brevard BRCC
- □ 20. Brevard CVS
- 21. Brevard Cedar Hill Apt
 - 22. Brevard Transylvania

County Hospital – Main Entrance

- 23. Brevard Brevard College
- 24. Brevard GoGrocery/Fitness Factory
- 25. Brevard Parks and Rec Center
- 26. Brevard Broad River Terrace Apt
- 26. Pisgah Forest Lowe's
- 27. Pisgah Forest Wal-Mart
- 28. Pisgah Forest Bi-Lo

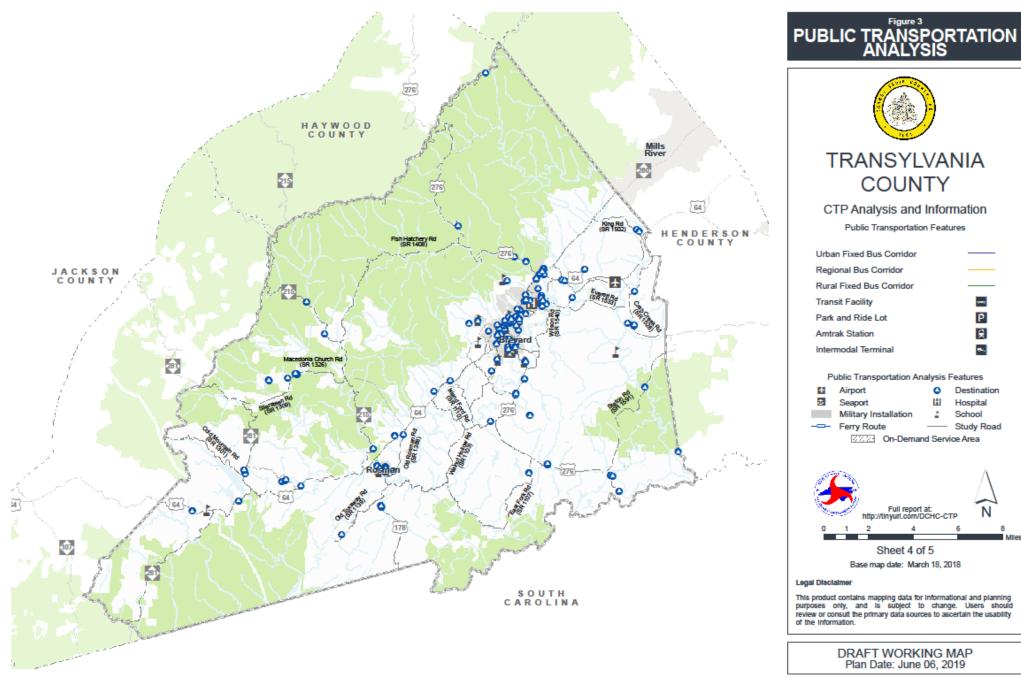


FY2020 Goals:

- Analysis of Head Start Transportation to present to TAB and Board of Commissioners
- Soft Marketing to increase registrations while educating community of Public Transportation / promote volunteers for the Land of Sky Senior Companion program
- Program Preparation for New Marketing Campaign (Seeking New Acronym to Reflect New Look/Attitude for Transportation)
- Redesign of Website to Incorporate more information for Clients Improve
 Communication and Technology to enhance transport: Technology Changes requires
 pre-approval from ITRE (Institute for Transportation Research and Education).
- Begin process for pre-approval of new scheduling software and research funding (scheduling and dispatch software that optimizes routes while decreasing miles traveled).

Future Goals:

- Expand van service in underserved areas of County
 - □ Going further into rural areas where van transportation is currently unavailable
 - Creating grocery store and shopping trips on designated days during the week
- Connect Van Service with Henderson County and Buncombe County designated transfer locations
- Extend hours of service to cover nights and weekends; Initial steps may begin with Saturday service
- Work with local medical providers and local funding opportunities to help support rural transportation for medical appointments



DRAFT WORKING MAP Plan Date: June 06, 2019

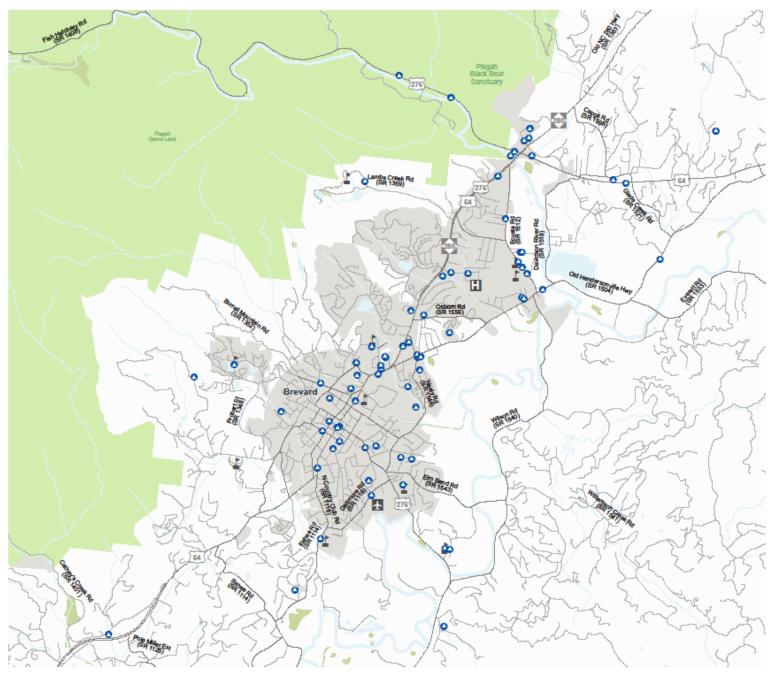
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Destination

--- Study Road

School



PUBLIC TRANSPORTATION ANALYSIS



TRANSYLVANIA COUNTY

CTP Analysis and Information

Public Transportation Features

Urban Fixed Bus Corridor

Regional Bus Corridor

Rural Fixed Bus Corridor

Transit Facility

Park and Ride Lot

Amtrak Station

Intermodal Terminal

Public Transportation Analysis Features

Airport

Destination

Seaport

Military Installation

School

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-- Ferry Route

--- Study Road

☑☑☑ On-Demand Service Area

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Full report at: http://tinyurl.com/DCHC-CTP

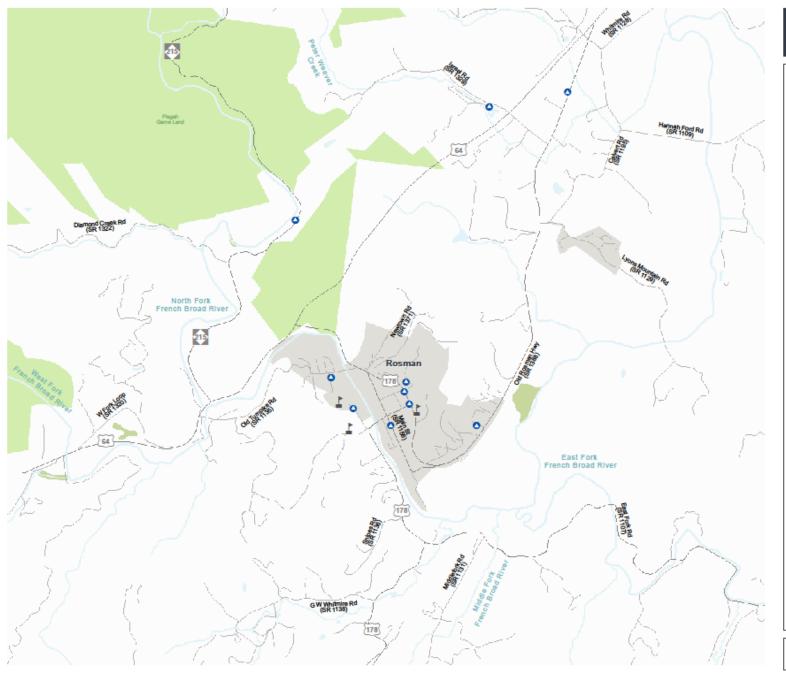
Sheet 4 of 5

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> DRAFT WORKING MAP Plan Date: June 06, 2019



PUBLIC TRANSPORTATION ANALYSIS



TRANSYLVANIA COUNTY

CTP Analysis and Information

Public Transportation Features

Urban Fixed Bus Corridor

Regional Bus Corridor

Rural Fixed Bus Corridor

Transit Facility

Park and Ride Lot

Amtrak Station

Intermodal Terminal

Public Transportation Analysis Features

÷ Airport Destination

t. Seaport Military Installation

School

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-- Ferry Route

--- Study Road

☑☑☑ On-Demand Service Area



Full report at: http://tinyurl.com/DCHC-CTP

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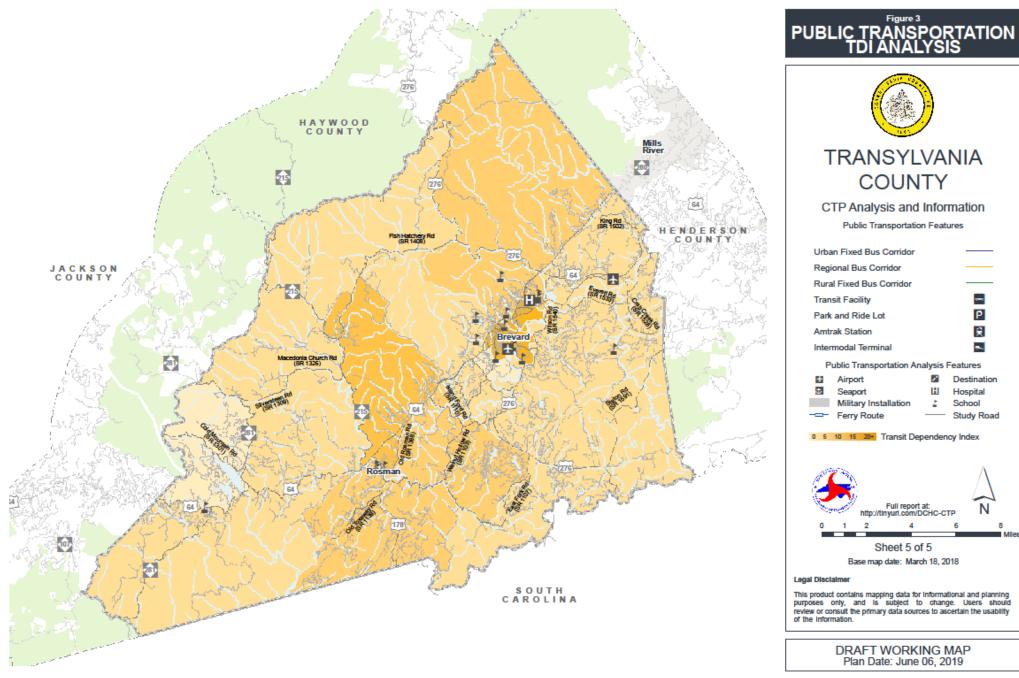
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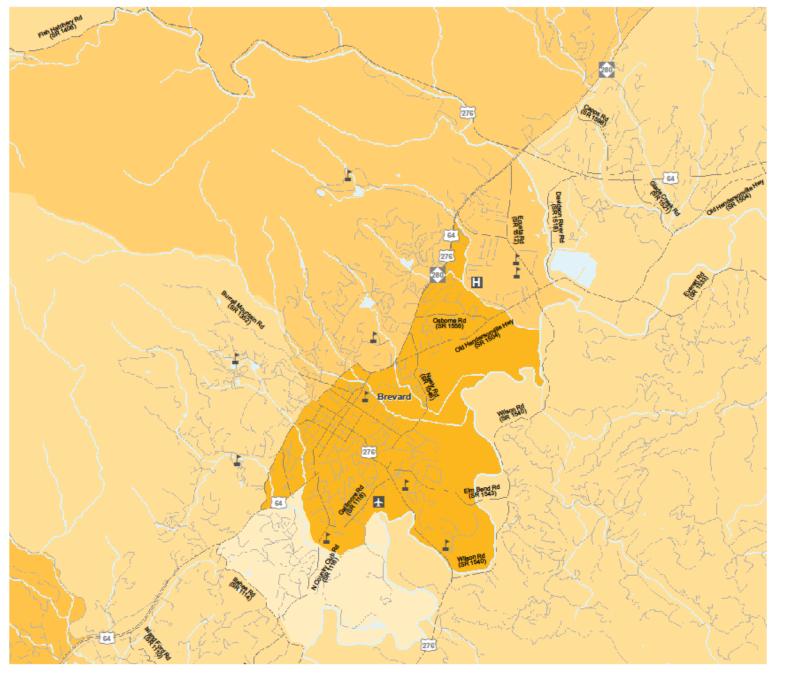
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Destination

— Study Road

School



PUBLIC TRANSPORTATION TDI ANALYSIS



TRANSYLVANIA COUNTY

CTP Analysis and Information

Public Transportation Features

Urban Fixed Bus Corridor

Regional Bus Corridor

Rural Fixed Bus Corridor

Transit Facility

Park and Ride Lot

Amtrak Station

Intermodal Terminal

Public Transportation Analysis Features Airport Destination

Seaport

Military Installation School

-- Ferry Route — Study Road

0 5 10 15 20+ Transit Dependency Index



Full report at: http://tinyurl.com/DCHC-CTP

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Hospital

Sheet 5 of 5

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DRAFT WORKING MAP Plan Date: June 06, 2019

Desired Outcomes Achieved?

- 1. Work Group has a working understanding of Capacity maps 2010 2040, Crash and Bridge Deficiency maps
- 2. Work Group provides direction on deficiencies and advises project team on additional highway needs
- 3. Work Group has a better understanding of Transylvania Co existing Public Transit Services
- 4. Work Group provides input on potential fixed route and pedestrian activity generators
- 5. Future meeting tentatively August 13, 3 4:30 at the Transylvania County Board of Elections building

Future Meetings

- Approximately Monthly
- Second Tuesdays/3:00 4:30
- Next Meeting June 11th 3:00-4:30
- Board of Elections (unless otherwise noted)
- No July Meeting



Contact info for your team

- Vicki Eastland, Land of Sky RPO, vicki. Eastland@landofsky.org 828-251-6622
- Daniel Sellers, NCDOT TPD, <u>dcsellers1@ncdot.gov</u> 919-707-0978
- Steve Williams, NCDOT Division 14, sjwilliams@ncdot.gov 828-586-2141
- Troy Williams, NCDOT Division 14, tswilson@ncdot.gov 828-586-2141

